WO 2004/099306 PCT/US2004/013413

What is claimed is:

 A thermally conductive heat exchange structure comprising a polymer composite comprising a major proportion of fluorocarbon polymer and a minor proportion of boron nitride.

- 2. The thermally conductive heat exchange structure of claim 1 wherein said polymer composite comprises from about 2 % to about 40 % by weight of B(N).
- 3. The thermally conductive heat exchange structure of claim 1 wherein said polymer composite comprises from about 5 % to about 15 % of BN.
- 4. The thermally conductive heat exchange structure of claim 2 wherein said polymer composite comprises at least about 60% by weight of fluorocarbon polymer.
- 5. The thermally conductive heat exchange structure of claim 2 wherein said polymer composite comprises at least about 75% by weight of fluorocarbon polymer.
- The thermally conductive heat exchange structure of claim 2 wherein said polymer composite comprises at least about 85% by weight of fluorocarbon polymer.
- 7. The thermally conductive heat exchange structure of claim 2 wherein said polymer composite comprises from about 85% to about 98% by weight of fluorocarbon polymer.
- 8. The thermally conductive heat exchange structure of claim 1 wherein said polymer composite has a thermal conductivity of at least about 1.5 (W/m/K).
- The thermally conductive heat exchange structure of claim 1 wherein said polymer composite has a thermal conductivity of at least to about 2 (W/m/K).
- 10. The thermally conductive heat exchange structure of claim 1 wherein said polymer composite has a thermal conductivity of at least to about 2.5 (W/m/K).

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WO 2004/099306 PCT/US2004/013413

11. The thermally conductive heat exchange structure of claim 1 wherein said polymer composite comprises from about 2 % to about 20 % by weight of B(N).